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PTO/SB/01 (12-97)

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Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☐ Declaration Submitted with Initial Filing
OR
☒ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number 283014-00009-1

First Named Inventor Yongfei Zhu

COMPLETE IF KNOWN

Application Number 09 / 660,719

Filing Date September 13, 2000

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SERIALLY-FED PHASED ARRAY ANTENNAS WITH DIELECTRIC PHASE
SHIFTERS**

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) 9/13/00 as United States Application Number or PCT International

Application Number 09/660,719 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/153,859	9/14/99	

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number OR ☐ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

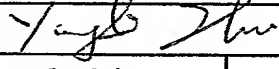
Direct all correspondence to: ☒ Customer Number 003705 OR ☒ Correspondence address below

Name	Robert P. Lenart				
Address	Eckert Seamans Cherin & Mellott, LLC				
Address	600 Grant Street, 44th Floor				
City	Pittsburgh	State	PA	ZIP	15219
Country		Telephone	(412) 566-1252	Fax	(412) 566-6099

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
Yongfei	Zhu

Inventor's Signature		Date	10/9/00				
Residence: City	Columbia	State	MD	Country	USA	Citizenship	China

Post Office Address							
Post Office Address	5275 Rivendell Lane, Suite 6						
City	Columbia	State	MD	ZIP	21044	Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Please type a plus sign (+) inside this box → +

PTO/SB/02A (3-97)
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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u> 1 </u> of <u> 1 </u>
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Louise C.				Sengupta			
Inventor's Signature	<i>Louise C. Sengupta</i>			10/10/00		Date	
Residence: City	Warwick	State	MD	Country	USA	Citizenship	USA
Post Office Address							
12 New Haven Boulevard							
City	Warwick	State	MD	ZIP	21912	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Andrey				Kozyrev			
Inventor's Signature	<i>Andrey Kozyrev</i>			10/16/00		Date	
Residence: City	St. Petersburg	State		Country	Russia	Citizenship	Russian
Post Office Address							
vyborgskaya naberezhnaya							
69/3 apt. 101							
City	St. Petersburg	State		ZIP	197342	Country	Russia
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Xubai				Zhang			
Inventor's Signature	<i>Xubai Zhang</i>			10/10/00		Date	
Residence: City	Columbia	State	MD	Country	USA	Citizenship	China
Post Office Address							
5275 Rivendell Lane, Suite 6							
City	Columbia	State	MD	ZIP	21044	Country	USA

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ASSIGNMENT

WHEREAS, WE, **YONGFEI ZHU**, residing at 5275 Rivendell Lane, Suite 6, Columbia, Maryland 21044, a citizen of China; **LOUISE C. SENGUPTA**, residing at 12 New Haven Boulevard, Warwick, Maryland 21912, a citizen of the United States of America; **ANDREY KOZYREV**, residing at vyborgskaya naberezhnaya, 69/3 Apt. 101, St. Petersburg, 197342, a citizen of Russia; and **XUBAI ZHANG**, 5275 Rivendell Lane, Suite 6, Columbia, Maryland 21044, a citizen of China, respectively, have invented certain improvements in: **SERIALLY-FED PHASED ARRAY ANTENNAS WITH DIELECTRIC PHASE SHIFTERS** which is described in United States Patent Application Serial No. 09/660,719 which was filed on September 13, 2000; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of ^{Delaware} ~~Maryland~~, having its principal place of business at 6935 Oakland Mills Road, Suite N, Columbia, MD 21045, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

10060560.01000

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Executed on this 5th day of February, 2001

Yongfei Zhu
YONGFEI ZHU

Louise C. Sengupta
LOUISE C. SENGUPTA

ANDREY KOZYREV
XUBAI ZHANG

State of Maryland :
County of Howard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **YONGFEI ZHU, LOUISE C. SENGUPTA, ANDREY KOZYREV and, XUBAI ZHANG** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 5th day of February, 2001.

Deborah M. Cowling
Notary Public

(NOTARIAL SEAL)

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Executed on this 5th day of February, 2001

Yongfei Zhu
YONGFEI ZHU

Louise C. Sengupta
LOUISE C. SENGUPTA

X Andrey Kozyrev
ANDREY KOZYREV

Xubai Zhang
XUBAI ZHANG

State of Maryland :
County of Howard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **YONGFEI ZHU, LOUISE C. SENGUPTA, ANDREY KOZYREV and, XUBAI ZHANG** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 2th day of February, 2001.

Deborah Cowling
Notary Public

(NOTARIAL SEAL)